Inventor: FRANK L. REES Docket: GREEN-P1-03 Attoney: Peter K. Trzyna

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Fig. 1
CARRIER BORNE ENERGY SPECTRUM

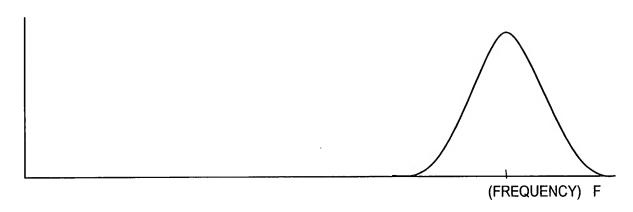


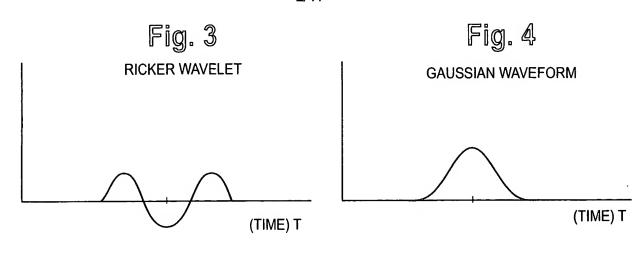
Fig. 2
SELF-DEMODULATED
BASE-BAND ENERGY SPECTRUM

BASE-BAND ENERGY SPECTRUM

(FREQUENCY) F

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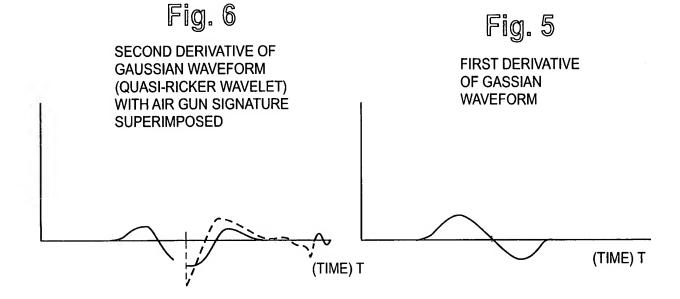


Fig. 7

PULSED CARRIER BORNE WAVEFORM
USED TO GENERATE QUASI-RICKER
WAVELET THROUGH NONLINEAR
SELF-DEMODULATING, FAR-FIELD INTERACTION

(TIME) T

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ENERGY SPECTRUM OF RICKER WAVELET

(FREQUENCY) F

Fig. 9

ENERGY SPECTRUM OF CARRIER-BORNE WAVEFORM USED TO GENERATE QUASI-RICKER WAVELET

(FREQUENCY) F

Fig. 10

ENERGY SPECTRUM OF QUASI-RICKER WAVELET WITH AIR-GUN ENERGY SPECTRUM SUPERIMPOSED

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Fig. 11

PREDISTORTED (I.E., FIRST-DERIVATIVE)
GAUSSIAN WAVEFORM PLUS DC OFFSET

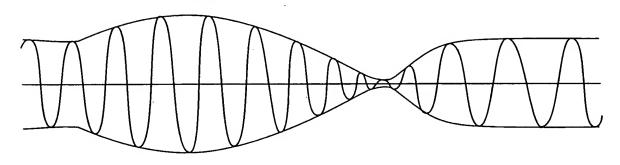
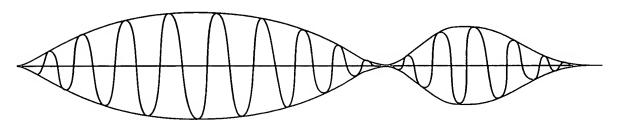


Fig. 12

TAPERED ENVELOPE GATING FUNCTION

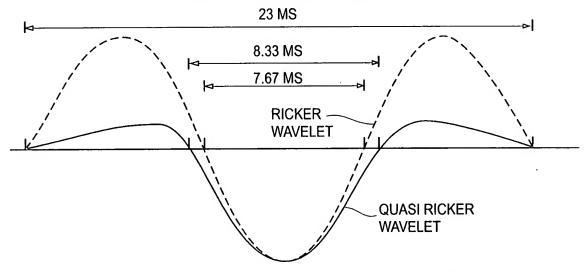


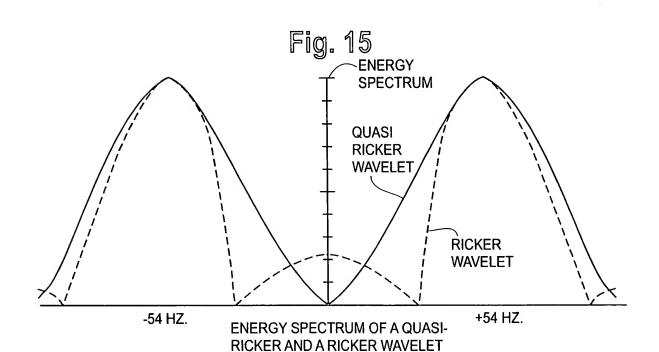


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Fig. 14
TIME WAVEFORMS OF A QUASI-RICKER
WAVELET AND A RICKER WAVELET





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Fig. 16

TRANSMITTED WAVEFORM

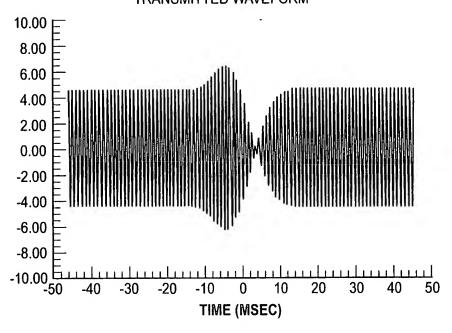
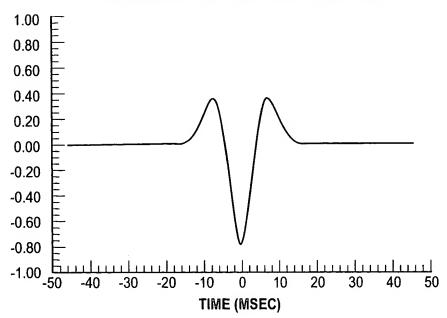


Fig. 17
DEMODULATED SOURCE LEVEL WAVEFORM



GAUSS-REES PARAMETRIC Title: **ULTRAWIDEBAND SYSTEM**

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Fig. 18



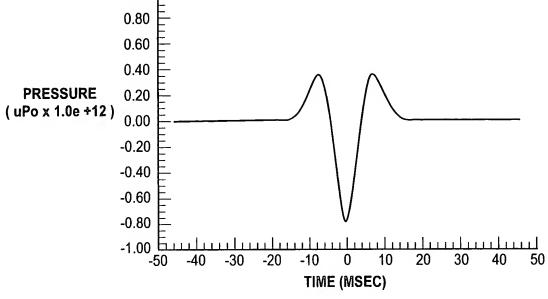
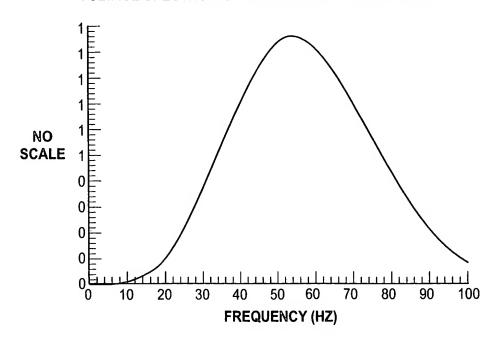


Fig. 19 **VOLTAGE SPECTRUM OF DEMODULATED WAVEFORM**



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Fig. 20 TRANSMITTED WAVEFORM

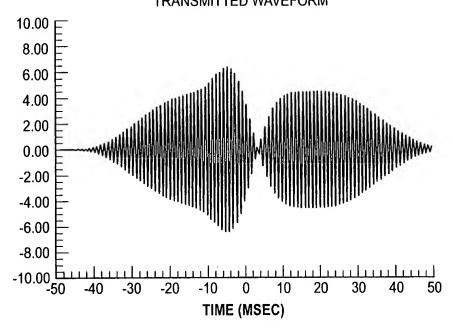
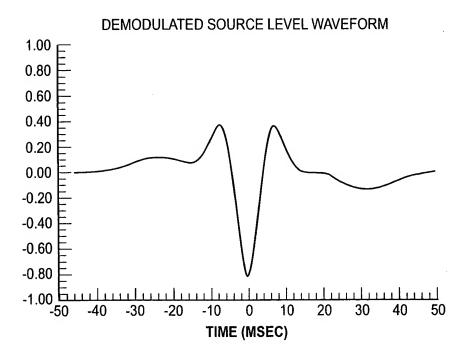


Fig. 21



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Fig. 22

DEMODULATED SOURCE LEVEL WAVEFORM

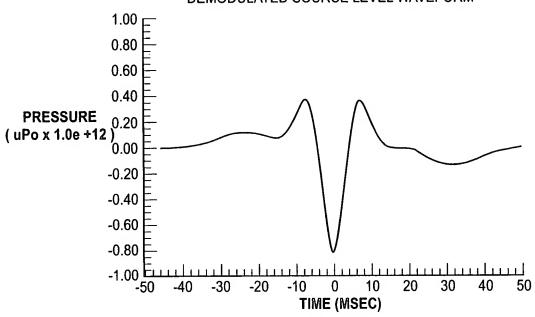
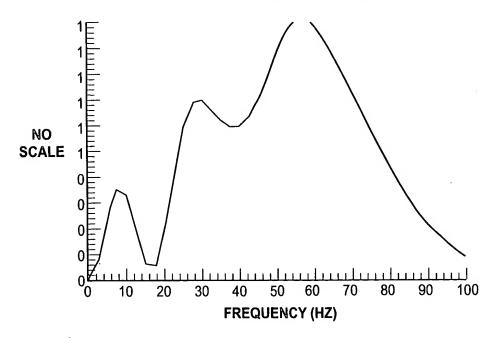


Fig. 23
VOLTAGE SPECTRUM OF DEMODULATED WAVEFORM

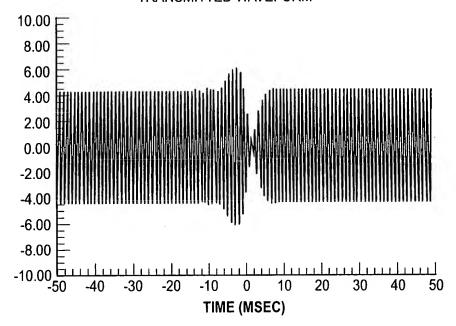


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Fig. 24

TRANSMITTED WAVEFORM



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Fig. 25

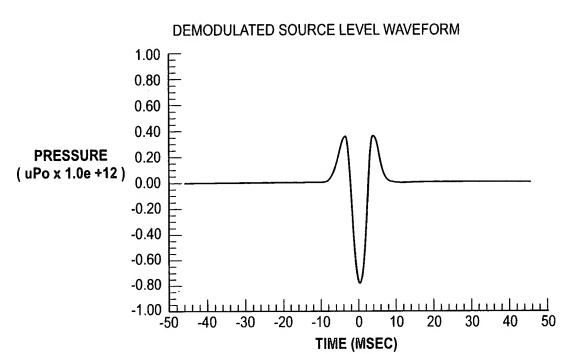
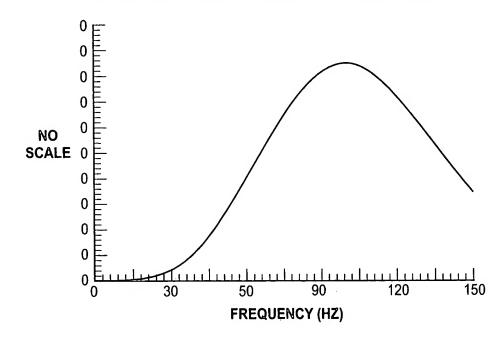


Fig. 26

VOLTAGE SPECTRUM OF DEMODULATED WAVEFORM



GAUSS-REES PARAMETRIC ULTRAWIDEBAND SYSTEM Inventor: FRANK L. REES Docket: GREEN-P1-03 Attoney: Peter K. Trzyna 12/17 PARTICIPANT SODIUM CHLORIDE TOWNINUM (100) ALUMINUM (100) SODIUM (110)
CHLORIDE (110)
SODIUM ALUMINUM
CHLORIDE (111) Fig. 27 ALUMINUM (110) COPPER (110) COPPER COPPER₍₁₁₁₎ (100) SOLIDS **OLIVINE 5.60** LIME QUARTZ SPINAL ZINCITE FAT (GM.03) HACANE @ 30 C MERCURY N-BULYT ALCOHOL LIVER CARBON TEUACHLORIDE 25 C LIQUIDS WATER @ 20 C GLYCEROL (4% WATER) MONOTOMIC DIATOMIC GAS GAS GASES

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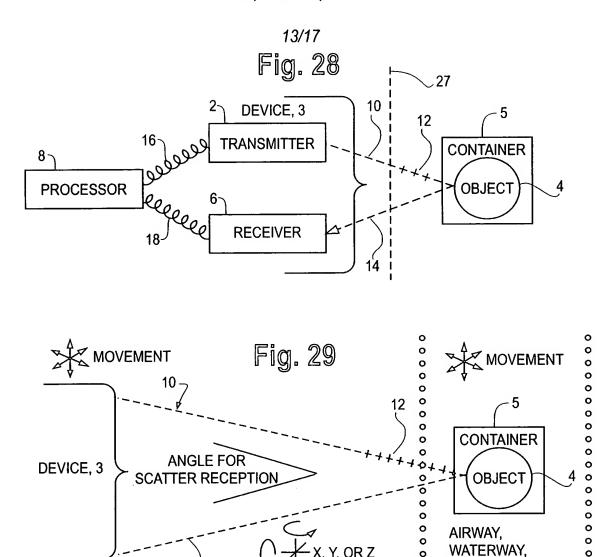
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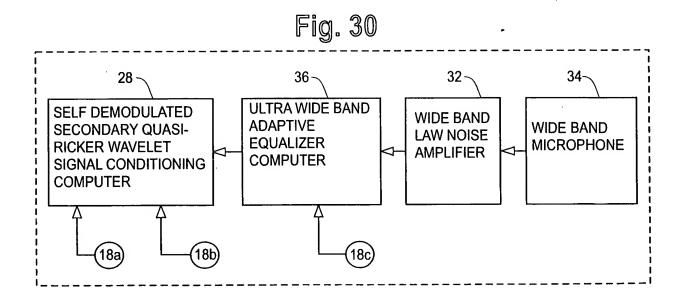
Title:

FOR GASES, LIQUIDS AND SOLIDS TYPICAL B/A-PARAMETER RATIOS

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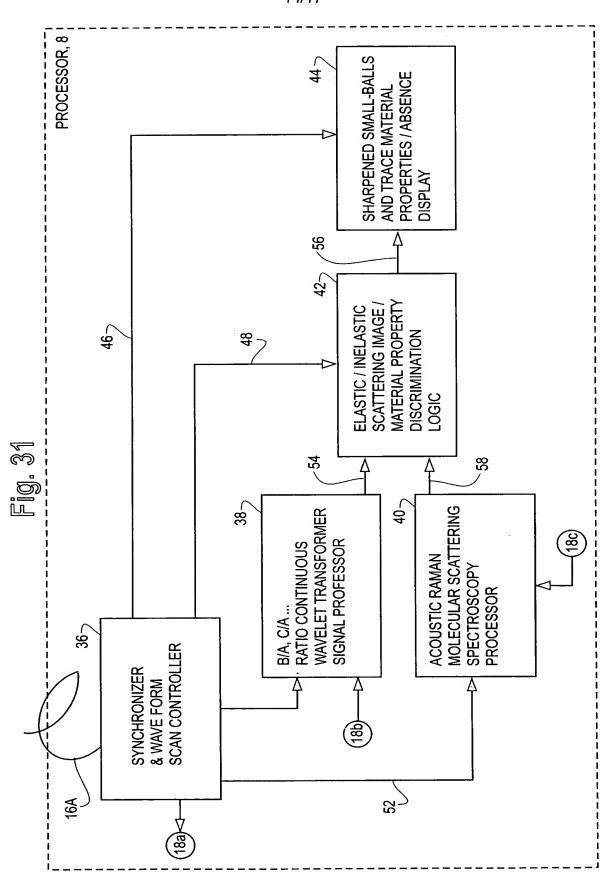




PASSAGEWAY, ETC.

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MODULATION COADAPTIVE

PRIMARY ADAPTIVE

WAVE

8

Fig. 32

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Fig. 33

FAR FIELD OF N-PROJECTOR ARRAY AND SECONDARY QUASI-RICKER WAVELET FAR-FIELD NLS / SD INTERASDIGN

